Claims

[c1]

An isolated nucleic acid having at least 80% nucleic acid sequence identity to: (a)a nucleic acid sequence encoding the polypeptide shown in Figure 6 (SEQ ID NO:6);

(b)a nucleic acid sequence encoding the polypeptide shown in Figure 6 (SEQ ID NO:6), lacking its associated signal peptide;

(c)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 6 (SEQ ID NO:6);

(d)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 6 (SEQ ID NO:6), lacking its associated signal peptide;

(e) the nucleic acid sequence shown in Figure 5 (SEQ ID NO:5);

(f)the full-length coding sequence of the nucleic acid sequence shown in Figure 5 (SEQ ID NO:5); or

(g)the full-length coding sequence of the cDNA deposited under ATCC accession number 209399.

[c2]

The isolated nucleic acid of Claim 1 having at least 85% nucleic acid sequence identity to:

(a)a nucleic acid sequence encoding the polypeptide shown in Figure 6 (SEQ ID NO:6);

(b)a nucleic acid sequence encoding the polypeptide shown in Figure 6 (SEQ ID NO:6), lacking its associated signal peptide;

(c)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 6 (SEQ ID NO:6);

(d)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 6 (SEQ ID NO:6), lacking its associated signal peptide;

(e)the nucleic acid sequence shown in Figure 5 (SEQ ID NO:5);

(f)the full-length coding sequence of the nucleic acid sequence shown in Figure 5 (SEQ ID NO:5); or

(g)the full-length coding sequence of the cDNA deposited under ATCC accession number 209399.

[c3]

The isolated nucleic acid of Claim 1 having at least 90% nucleic acid sequence identity to:

(a)a nucleic acid sequence encoding the polypeptide shown in Figure 6 (SEQ ID NO:6);

(b) a nucleic acid sequence encoding the polypeptide shown in Figure 6 (SEQ ID NO:6), lacking its associated signal peptide;

(c) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 6 (SEQ ID NO:6);

(d)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 6 (SEQ ID NO:6), lacking its associated signal peptide;

(e) the nucleic acid sequence shown in Figure 5 (SEQ ID NO:5);

(f)the full-length coding sequence of the nucleic acid sequence shown in Figure 5 (SEQ ID NO:5); or

(g)the full-length coding sequence of the cDNA deposited under ATCC accession number 209399.

The isolated nucleic acid of Claim 1 having at least 95% nucleic acid sequence identity to:

(a) a nucleic acid sequence encoding the polypeptide shown in Figure 6 (SEQ ID NO:6);

(b)a nucleic acid sequence encoding the polypeptide shown in Figure 6 (SEQ ID NO:6), lacking its associated signal peptide;

(c)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 6 (SEQ ID NO:6);

(d)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 6 (SEQ ID NO:6), lacking its associated signal peptide;

(e)the nucleic acid sequence shown in Figure 5 (SEQ ID NO:5);

(f) the full-length coding sequence of the nucleic acid sequence shown in Figure 5 (SEQ ID NO:5); or

(g)the full-length coding sequence of the cDNA deposited under ATCC accession number 209399.

The isolated nucleic acid of Claim 1 having at least 99% nucleic acid sequence identity to:

(a)a nucleic acid sequence encoding the polypeptide shown in Figure 6 (SEQ ID NO:6);

[c4]

[c5]

(b)a nucleic acid sequence encoding the polypeptide shown in Figure 6 (SEQ ID NO:6), lacking its associated signal peptide;

(c)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 6 (SEQ ID NO:6);

(d)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 6 (SEQ ID NO:6), lacking its associated signal peptide;

(e) the nucleic acid sequence shown in Figure 5 (SEQ ID NO:5);

(f)the full-length coding sequence of the nucleic acid sequence shown in Figure 5 (SEQ ID NO:5); or

(g)the full-length coding sequence of the cDNA deposited under ATCC accession number 209399.

[c6] An isolated nucleic acid comprising:

(a)a nucleic acid sequence encoding the polypeptide shown in Figure 6 (SEQ ID NO:6);

(b)a nucleic acid sequence encoding the polypeptide shown in Figure 6 (SEQ ID NO:6), lacking its associated signal peptide;

(c)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 6 (SEQ ID NO:6);

(d)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 6 (SEQ ID NO:6), lacking its associated signal peptide;

(e)the nucleic acid sequence shown in Figure 5 (SEQ ID NO:5);

(f) the full-length coding sequence of the nucleic acid sequence shown in Figure 5 (SEQ ID NO:5); or

(g)the full-length coding sequence of the cDNA deposited under ATCC accession number 209399.

[c7] The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence encoding the polypeptide shown in Figure 6 (SEQ ID NO:6).

[c8] The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence encoding the polypeptide shown in Figure 6 (SEQ ID NO:6), lacking its associated signal peptide.

[c9] The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence

encoding the extracellular domain of the polypeptide shown in Figure 6 (SEQ ID NO:6).

- [c10] The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 6 (SEQ ID NO:6), lacking its associated signal peptide.
- [c11] The isolated nucleic acid of Claim 6 comprising the nucleic acid sequence shown in Figure 5 (SEQ ID NO:5).
- [c12] The isolated nucleic acid of Claim 6 comprising the full-length coding sequence of the nucleic acid sequence shown in Figure 5 (SEQ ID NO:5).
- [c13] The isolated nucleic acid of Claim 6 comprising the full-length coding sequence of the cDNA deposited under ATCC accession number 209399.
- [c14] An isolated nucleic acid that hybridizes to:

 (a)a nucleic acid sequence encoding the polypeptide shown in Figure 6 (SEQ ID NO:6);
 - (b)a nucleic acid sequence encoding the polypeptide shown in Figure 6 (SEQ ID NO:6), lacking its associated signal peptide;
 - (c) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 6 (SEQ ID NO:6);
 - (d)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 6 (SEQ ID NO:6), lacking its associated signal peptide;
 - (e) the nucleic acid sequence shown in Figure 5 (SEQ ID NO:5);
 - (f)the full-length coding sequence of the nucleic acid sequence shown in Figure 5 (SEQ ID NO:5); or
 - (g)the full-length coding sequence of the cDNA deposited under ATCC accession number 209399.
- [c15] The isolated nucleic acid of Claim 14, wherein said hybridization occurs under stringent conditions.
- [c16] The isolated nucleic acid of Claim 14 which is at least 10 nucleotides in length.
- [c17] A vector comprising the nucleic acid of Claim 1.

- [c18] The vector of Claim 17, wherein said nucleic acid is operably linked to control sequences recognized by a host cell transformed with the vector.
- [c19] A host cell comprising the vector of Claim 17.
- [c20] The host cell of Claim 19, wherein said cell is a CHO cell, an *E. coli* or a yeast cell.